SEQUENCE LISTING

- SEQ ID NO: 1 hCARa sequence ACCESSION CAA83016

 1 MASREDELRN CVVCGDQATG YHFNALTCEG CKGFFRRTVS KSIGPTCPFA
 GSCEVSKTOR
- 5 61 RHCPACRLQK CLDAGMRKDM ILSAEALALR RAKQAQRRAQ QTPVQLSKEQ EELIRTLLGA
 - 121 HTRHMGTMFE QFVQFRPPAH LFIHHQPLPT LAPVLPLVTH FADINTFMVL QVIKFTKDLP
 - 181 VFRSLPIEDQ ISLLKGAAVE ICHIVLNTTF CLQTQNFLCG PLRYTIEDGA
- 10 RVGFQVEFLE
 241 LLFHFHGTLR KLQLQEPEYV LLAAMALFSP DRPGVTQRDE IDQLQEEMAL
 - 301 RRPRDRFLYA KLLGLLAELR SINEAYGYQI QHIQGLSAMM PLLQEICS
- 15 SEQ ID NO: 2 mCARβ1, mCAR1, ACCESSION AAC53349
 1 MTAMLTLETM ASEEEYGPRN CVVCGDRATG YHFHALTCEG CKGFFRRTVS
 KTIGPICPFA
 61 GRCEVSKAQR RHCPACRLQK CLNVGMRKDM ILSAEALALR RARQAQRRAE
 - 61 GRCEVSKAQR RHCPACRLQK CLNVGMRKDM ILSAEALALR RARQAQRRAE KASLQLNQQQ
- 20 121 KELVQILLGA HTRHVGPLFD QFVQFKPPAY LFMHHRPFQP RGPVLPLLTH FADINTFMVQ
 - 181 QIIKFTKDLP LFRSLTMEDQ ISLLKGAAVE ILHISLNTTF CLQTENFFCG PLCYKMEDAV
 - 241 HAGFQYEFLE SILHFHKNLK GLHLQEPEYV LMAATALFSP DRPGVTQREE
- 25 IDQLQEEMAL

TLQSYIKGOO

- 301ILNNHIMEQQ SRLQSRFLYA KLMGLLADLR SINNAYSYEL QRLEELSAMT PLLGEICS
- SEQ ID NO: 3 mCARβ2 mCAR2, ACCESSION AAC53350
- 30 1 MTAMLTLETM ASEEEYGPRN CVVCGDRATG YHFHALTCEG CKGFFRRTVS KTIGPICPFA
 - $61~\mathrm{GRCEVSKAQR}$ RHCPACRLQK CLNVGMRKDM ILSAEALALR RARQAQRRAE KASLQLNQQQ

121 KELVQILLGA HTRHVGPLFD QFVQFKPPAY LFMHHRPFQP RGPVLPLLTH FADINTFMVQ 181 QIIKFTKDLP LFRSLTMEDQ ISLLKGAAVE ILHISLNTTF CLQTENFFCG PLCYKMEDAV

5 241 HAGFQYEFLE SILHFHKNLK GLHLQEPEYV LMAATALFSP GFCMQS

SEQ ID NO: 5 - murine CARβ genomic nucleotide sequence - Section B AAAGAGGTCATCAGGCTTGGCAGCAAGTGCCTTTGCCTACCGAGTCTTTACACCA GCTCCACCGTGGTTTTTGAGACAGTCTCCCACTGGACTGGATTTCAGCAAGAAAG 20 CTAGGCTTGCCTTCTTGTCTCTGCCTCCTTGGCATTGGAATTATGAGTTGTTCCAC CGTGCCATTTTTAAAAATGTAGGTTCTAGGAATTAAACTCGGCTCTCGGTGCTTA TATAGTGAGTACTTTACAGAGGGAGTCACCTTGCCAGCACCTAGAATTCACTTTTTAAGTTCTTAGTTGGATACCGAAGTCTTTTTTTTAACAGATCTCTGGGGCTCAGAA 25 GGCAAGAGCTCCTTGCAGAGGATTTAACCTCAATTCCTAGTACTCAACTTGCCAG CTCATAACTGCCTATAACTCTAGTCCCAGAAGATCAGACATTGTCCTCTGATCTCT AAAGAAAAAGAAAGAAAATCCTTTGGGAGCCTGGTATAATTGTTATAGCT ACCTTTTTTTTTTTTTTTTTTTTTTTTACCATTTGCAAACTGCACGTGAAAAAG 30 CTTGCCATCTCCCATTGTTTCCTGGCTTATTCAGGATCCATGCAAAAAGGGGA GTGTAGATTTAGCCTAAAGCTCACCCACAGGGAAATCCTCCAGGAGTCTAGTAA GCAGCAGCTTTTAATGAGTCATGAGGTCCTGGCCCCTCCCCATCTGCCACCAACC

AGAGGCCCCATGCAAGAGAAGGCCCTTGTTTTCCAGGCACTAAGGACCGCAGTC CAGGTAGGTAATCCGTTGGAGGCCAGAGACAAAAAGCAACATTTTTGCTTTTAAT5 GTCCTCAGTGCTGGGAGCCCGGTGTCAGGCTGGGCAGTCTTGGGAAGAGATTCT GTAGAGGAGAGAGAGAGTCCTATGGCCCAGTGCTGATTCTCAACTCCTCCC ACATTCAGGAGACCATGACAGCTATGCTAACACTAGAAACCATGGCCAGTGAAG AAGAATATGGGCCGAGGAACTGTGTGGTGTGGAGACCGGGCCACAGGCTATCATTTCCACGCCCTGACTTGTGAGGGCTGCAAGGGCTTCTTCAGGTGAATGCTTCC 10 TCCCCAACAGAAACAACCCCGACATTTCTATCAGTCCACCTTTAAACACTGGTAC ACCTCCAAGTTATAATCCTCTTGCAGCTAAGCTGCACTGCCCAGTGTCTAGCACT CTCAATCTTGCTGACCACAACGCAGTGTGAAACTGGTGACCTAATGACAAGGCA GGTTAACCATTTGTCCCAGAGACAGAGCCTAAGAGTCAAGAACACTTGTGTAGC ACACACTACCTGCAAAGCACCGAGATGATTGCCACACGAGGGTTCCTGAGTAAC 15 CTTGTGTTCTCATGAAAACGCTCCAACTACCTCTGAAGACCTTTGAGCACAGCTC AGATGAGTCTGTTGTTAAATCGATCC

SEQ ID NO: 6 - murine CAR β genomic nucleotide sequence -- Section C

TGCATTGCTTTCTACTGAAGTGTATCACAGATGAATATGAGATCGACAGAAAGTG
TGCAGGGATCCCCCTGCCATCTGGAAACACTTAATTCAATGAAGTCCCAAGGAA
GCCTCAGAAACTCTTTCTTCCTTCCTCCTTCCTTATCTGGGGAGGTGGAGTGGCCC
CAACTGAAGGGATGGCTGAAAGGTGCTCGCTGCTGTTCTCAACAGCTTTGTCATC
TCTCTTGCCTGACACAGTGATACTGTCAGCAGAAGCCCTGGCATTGCGGCGAGCC
AGACAGGCACAGCGGCGGGCAGAGAAAGCATCTTTGCAACTGAATCAGCAGCAG

25 AGACAGGCACAGCGGCGGGCAGAGAAAGCATCTTTGCAACTGAATCAGCAGCAG AAAGAACTGGTCCAGATCCTCCTCGGGGCCCACACTCGCCATGTGGGCCCCATGT TTGACCAGTTTGTGCAGTTCAAGGTGAGAACTTAACCAGGATGTGACCTGGGTAC CTGAGGAGGTAACCCACAGAAGAAGGCTATGCCCTGATGGAGGACA

30 SEQ ID NO: 7- Sensor peptide sequence ILRKLLQE

SEQ ID NO: 8- Hamster CAR nucleotide sequence

CTTGTTTTCTAGGGACCAAGGACAATCCCTAATTCCTGCAGTTCCTGAGACCACA AGGAAAGCAGGGTCATCGTGGAGGCTTGGAGACAGGCATCTCATACCAGATTTT GTGACCTGCGTGTCATACTGCCTAAGAGAAACAGGAGACCATGACAGCTACG GTGTGTGGAGACCGAGCCACGGGCTACCATTTCCATGCCCTGACTTGTGAGGGCT GCAAAGGCTTCTTCAGACGAACTGTCAGCAAAACCATTAGTCCCATCTGTCCATT TTCTGGAAGCTGTGAGATCAGCAGAGCCCAGAGACGCCACTGCCCAGCCTGCAG GTTGCAGAAGTGCCTAAACGCTGGCATGAGGAAAGACATGATACTGTCAGCAGA AGCCTGTCGTTGCGGCGAGCCAGGCAGGCACAGCGGCGGCACAAAAAGCTTC CGTGCAGATGACTCAGGAGCGGAAGGAGCTGGTCCAGACCCTCATAGGGGCCCA CACCCGCCACATGGGCCCCATGTTTGACCAGTTTGTGAAGCTCAGGCCTCCAGCT ${\tt TACCTGTTCACCCATCACCGGCCCTCCTCCCCGCGTTGGTCCCCCCGCGTTACCACT}$ GCTCACACACTTTGCAGATGTCAACACTTTCATGGTGCAGCAGATTATCAAGTTC ACCAAGGAACTGCCCCTTTTTCGGTCCCTACCCGTGGAGGACCAGATCTCCCTTC TCAAGGGAGCAGCTGTGGAAATATTGCATATCTCACTCAACACTACTTTCTGTCTTCAAACACAGAATTTCTTCTGTGGGCCACTTTGCTACAAAATGGAAGACGCAGCC CACGCAGGGTTCCGGTACGAATATGTGGAGTTGATCTTTCGCTTCCATGGGACAC TGAAGCGACTGCAGCTCCAAGAGCCTGAGTATGTGCTCATGACTGCCATGGCCCT AGAGGAGATGGCACTGATTTTGAACAACTACATTATGGAACAGCAGCCAAGGCC ATAAACAATGCATACTCATATGAAATACGGCGCATCCAGGGACTGTCCGCTATG ATGCCACTACTTGGGGAAATCTGCAGCTGAGGCTCAGGCTTGCCTCCTTCCCCAG GGCCCCTGGGATTCATTGGACTGGAAAGGGGAAATTGCTGAGCTAAAAGGAGCT AGCGACCTGCCCGGGCGGCCGTTCAGC

SEQ ID NO: 9- Predicted amino acid sequence of hamster CAR

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30 MTATLTLETKASGEEYGPRNCVVCGDRATGYHFHALTCEGCKGFFRRTVSKTISPICP FSGSCEISRAQRRHCPACRLQKCLNAGMRKDMILSAEALSLRRARQAQRRAQKASV QMTQERKELVQTLIGAHTRHMGPMFDQFVKLRPPAYLFTHHRPSSPLVPPALPLLTH FADVNTFMVQQIIKFTKELPLFRSLPVEDQISLLKGAAVEILHISLNTTFCLQTQNFFCG PLCYKMEDAAHAGFRYEYVELIFRFHGTLKRLQLQEPEYVLMTAMALFSPDRPGITQ

REEIDQLQEEMALILNNYIMEQQPRPQSRFLYAKLMGLLAELRSINNAYSYEIRRIQG

SEQ ID NO: 10 - Oligo 2930

LSAMMPLLGEICS

5 CCATAAACGTGTTGATATCTGCAAAGTGTGCGAGCAGAGGCAACACGGGGCCCC GAGG

SEQ ID NO: 11 - Oligo 2931 CTCTACAGCCTCCAGCCTATCTGTTCATGCATCACCGGCCTTTCCAGCCTCGGGGC 10 CC